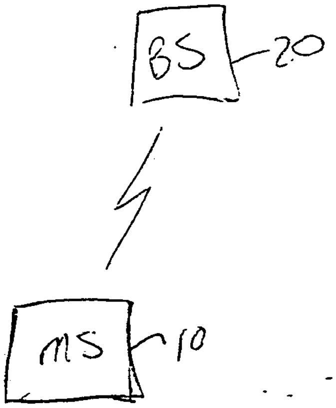
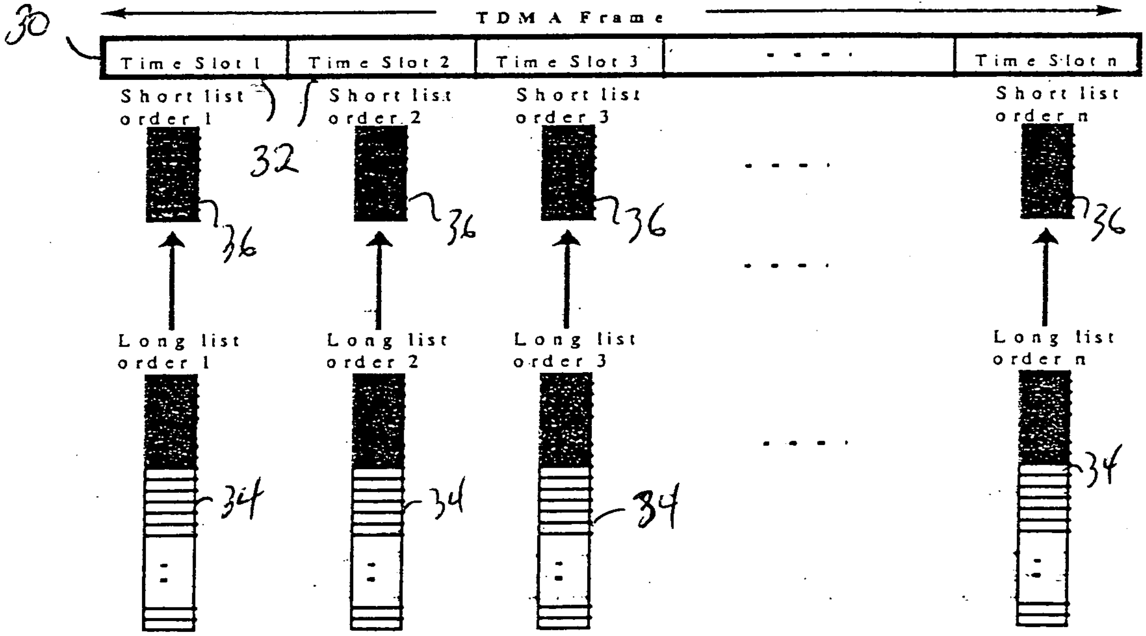

BS
20
MS
10

Fig. 1.

Fig. 2


30
TDMA Frame
Time Slot 1
Time Slot 2
Time Slot 3
- - - -
Time Slot n
Short list order 1
Short list order 2
Short list order 3
Short list order n
32
36
36
36
36
- - - -
- - - -
Long list order 1
Long list order 2
Long list order 3
Long list order n
34
34
34
34
- - - -

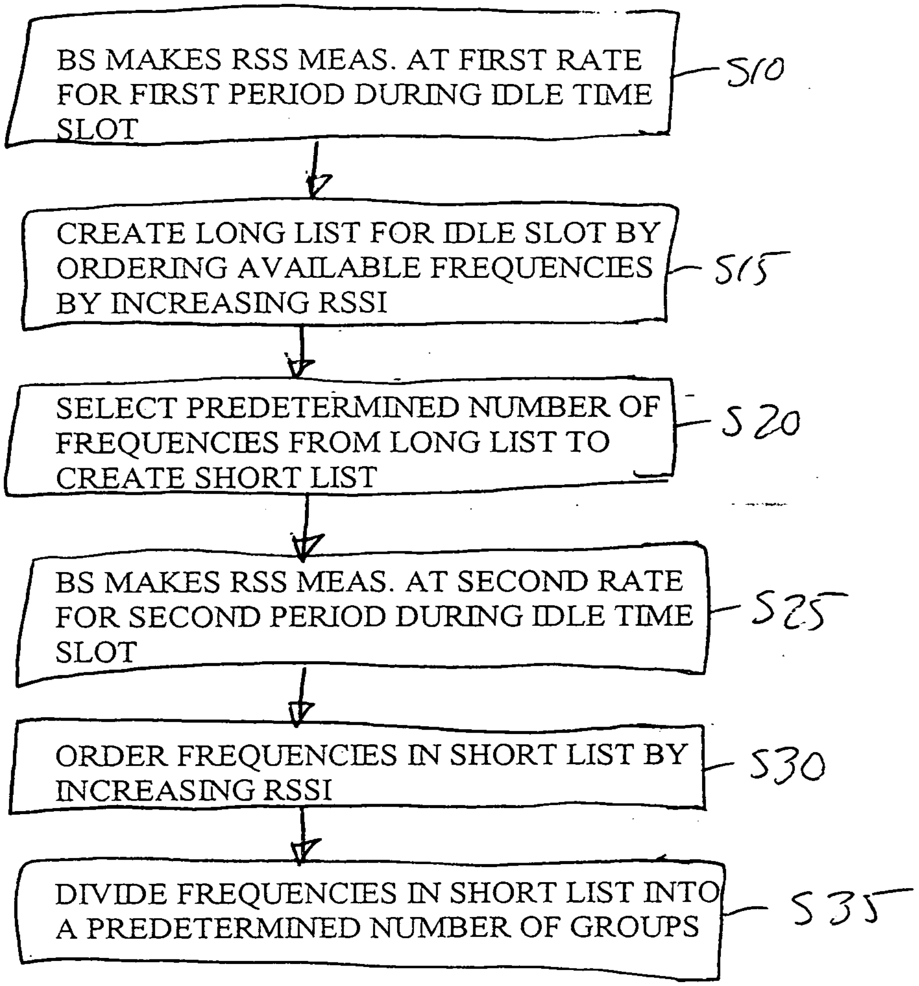

BS MAKES RSS MEAS. AT FIRST RATE FOR FIRST PERIOD DURING IDLE TIME SLOT
S10
CREATE LONG LIST FOR IDLE SLOT BY ORDERING AVAILABLE FREQUENCIES BY INCREASING RSSI
S15
SELECT PREDETERMINED NUMBER OF FREQUENCIES FROM LONG LIST TO CREATE SHORT LIST
S20
BS MAKES RSS MEAS. AT SECOND RATE FOR SECOND PERIOD DURING IDLE TIME SLOT
S25
ORDER FREQUENCIES IN SHORT LIST BY INCREASING RSSI
S30
DIVIDE FREQUENCIES IN SHORT LIST INTO A PREDETERMINED NUMBER OF GROUPS
S35

Fig. 3

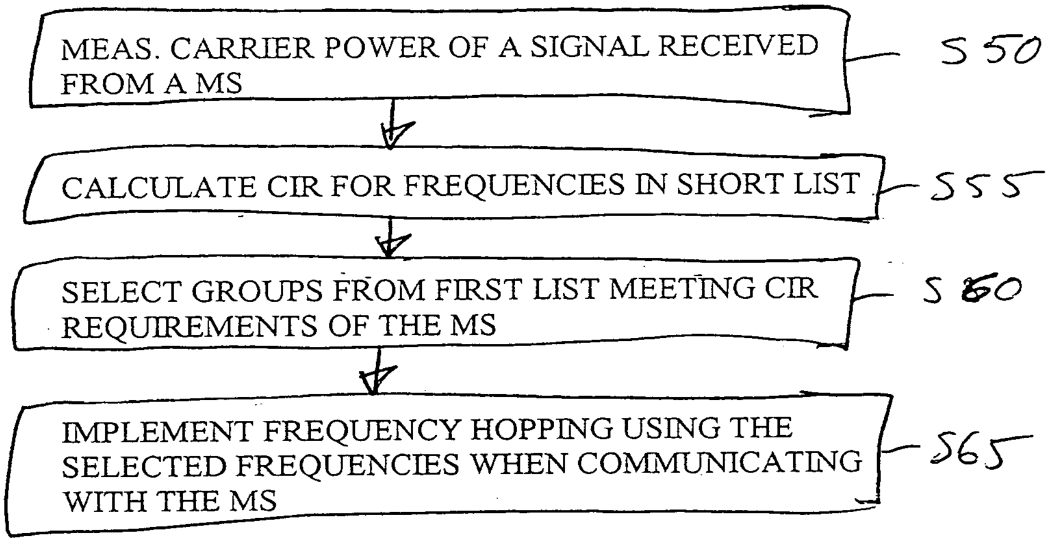

MEAS. CARRIER POWER OF A SIGNAL RECEIVED FROM A MS
S50
CALCULATE CIR FOR FREQUENCIES IN SHORT LIST
S55
SELECT GROUPS FROM FIRST LIST MEETING CIR REQUIREMENTS OF THE MS
S60
IMPLEMENT FREQUENCY HOPPING USING THE SELECTED FREQUENCIES WHEN COMMUNICATING WITH THE MS
S65

Fig. 4

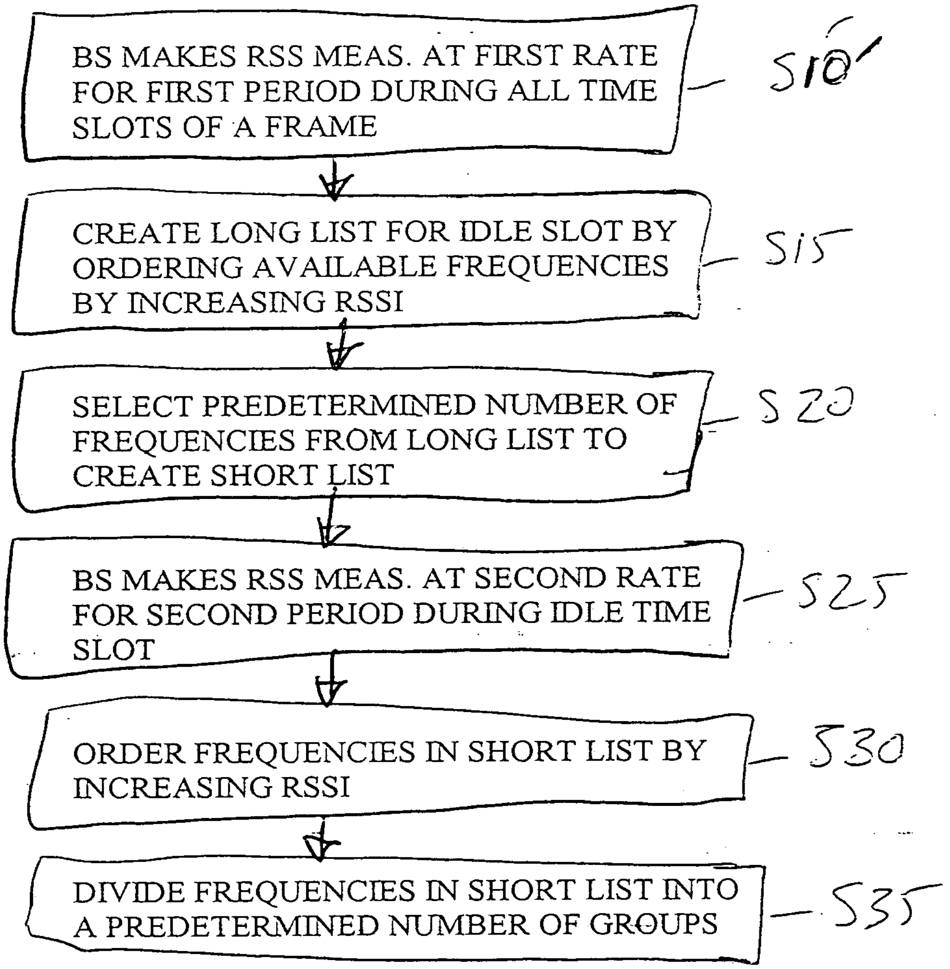
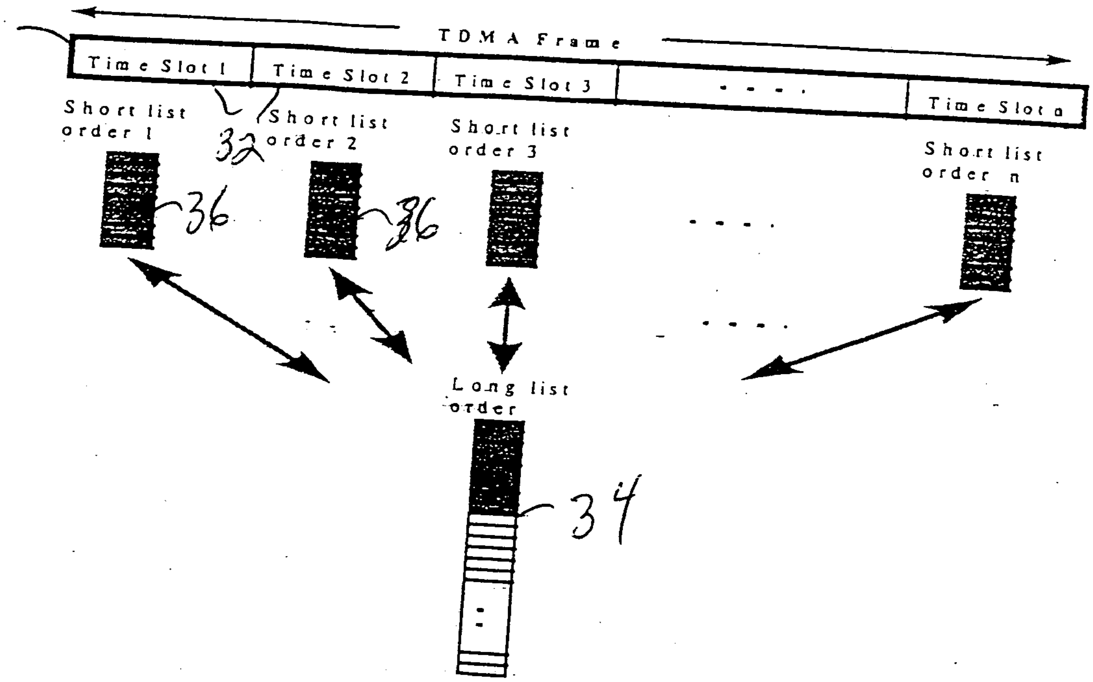

BS MAKES RSS MEAS. AT FIRST RATE FOR FIRST PERIOD DURING ALL TIME SLOTS OF A FRAME
S10'
CREATE LONG LIST FOR IDLE SLOT BY ORDERING AVAILABLE FREQUENCIES BY INCREASING RSSI
S15
SELECT PREDETERMINED NUMBER OF FREQUENCIES FROM LONG LIST TO CREATE SHORT LIST
S20
BS MAKES RSS MEAS. AT SECOND RATE FOR SECOND PERIOD DURING IDLE TIME SLOT
S25
ORDER FREQUENCIES IN SHORT LIST BY INCREASING RSSI
S30
DIVIDE FREQUENCIES IN SHORT LIST INTO A PREDETERMINED NUMBER OF GROUPS
S35

Fig. 5

Fig. 6


20
TDMA Frame
Time Slot 1
Time Slot 2
Time Slot 3
. . . .
Time Slot n
32
Short list order 1
Short list order 2
Short list order 3
Short list order n
36
36
. . . .
. . . .
Long list order
34

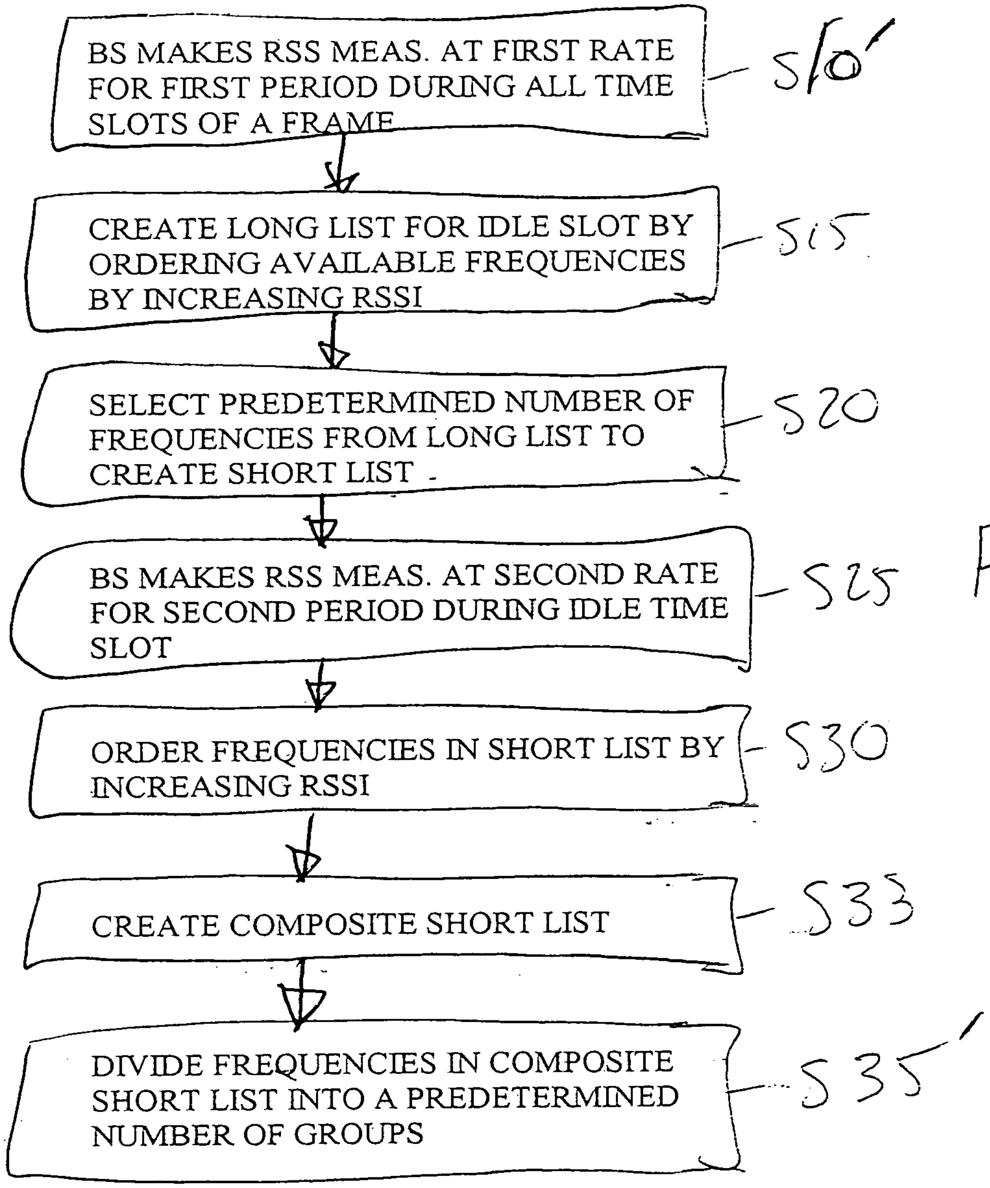

BS MAKES RSS MEAS. AT FIRST RATE FOR FIRST PERIOD DURING ALL TIME SLOTS OF A FRAME
S10'
CREATE LONG LIST FOR IDLE SLOT BY ORDERING AVAILABLE FREQUENCIES BY INCREASING RSSI
S15
SELECT PREDETERMINED NUMBER OF FREQUENCIES FROM LONG LIST TO CREATE SHORT LIST
S20
BS MAKES RSS MEAS. AT SECOND RATE FOR SECOND PERIOD DURING IDLE TIME SLOT
S25
ORDER FREQUENCIES IN SHORT LIST BY INCREASING RSSI
S30
CREATE COMPOSITE SHORT LIST
S33
DIVIDE FREQUENCIES IN COMPOSITE SHORT LIST INTO A PREDETERMINED NUMBER OF GROUPS
S35'

Fig. 7